

A method of detecting a sequence of information symbols,  
and a mobile station adapted to performing the method

sub 357  
5 ABSTRACT:

10 The invention relates to a method of detecting a sequence  
of information symbols from a first signal subjected to  
inter-symbol interference. The method is performed as one  
or more signal processing paths are each being adapted to  
15 setting each symbol in the sequence to a value. When an  
uncertain decision has been taken in a given signal  
processing path, the signal processing path is divided  
into two. A after setting a number of symbols, the  
sequence of information symbols from one of said one or  
20 more signal processing paths as the detected sequence of  
information symbols is selected. The threshold used to  
determine whether a symbol is certain or not is adjusted  
in accordance with an estimate of said noise.

25 The invention also relates to an apparatus adapted to  
performing the method.

According to the invention the number of symbol errors  
25 when detecting a signal subjected to inter-symbol  
interference, e.g. in a mobile station, is reduced, and  
therefore the performance of the receiver is improved.  
Since unnecessary calculations are minimised,  
computational complexity is reduced which, in turn,  
30 reduces the power consumption.

Figure 4 should be published.